

United States Patent and Trademark Office



APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,515	(06/24/2003	Ernst Hendrik August Granneman	ASMINT.002C3	3633
20995	7590	02/09/2004		EXAMINER	
KNOBBE I		NS OLSON & 1	HASSANZADEH, PARVIZ		
FOURTEEN		OR	ART UNIT	PAPER NUMBER	
IRVINE, CA	4 92614			1763	

DATE MAILED: 02/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summary	10/603,515	GRANNEMAN ET AL.					
,	Examiner	Art Unit					
The MAILING DATE of this communication and	Parviz Hassanzadeh	1763					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any Status							
1) Responsive to communication(s) filed on 23 Oc	tober 2003.						
	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-29</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) 1-29 is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 24 June 2003 is/are: a) Second or b) □ abjected to be up to 5.							
	10)⊠ The drawing(s) filed on <u>24 June 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summarv (F	PTO-413) Paper No(s)					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6/03	5) Notice of Informal Par						

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 28 and 29 are rejected under 35 U.S.C. 102(b) as being anticipated by Kisa (US Patent No. 4,738,748).

Kisa teaches a semiconductor processing apparatus (Fig. 3) including wafer-supporting block comprising:

a base plate 15 (a plate configured to extend across a major surface of the wafer having a thickness greater than 10 mm);

a plurality of gas holes 13 (a plurality of distributed gas passage in the plate capable of creating a supporting gas cushion);

a plurality of heater elements 18 coupled to a temperature control unit 19, wherein the plate 15 is made of aluminum or titanium (a resistive heater capable of heating the plate, wherein a heat capacity of the wafer-supporting block is sufficiently high to allow heat being transferred to the wafer) (column 3, lines 3-49; column 4, lines 18-23).

Further regarding intend use of the apparatus: It has been held that claims directed to apparatus must be distinguished from the prior art in terms of structure rather than function. *In re Danley*, 120 USPQ 528, 531, (CCPQ 1959); "Apparatus claims cover what a device is, not what a device does" (Emphasis in original) *Hewlett-Packard Co. V. Bausch & Lomb Inc.*, 15USPQ2d

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1525, 1528 (Fed. Cir. 1990); and a claim containing a "recitation with respect to the manner in which a claimed apparatus is intended to be employed dos not differentiate the claimed apparatus from a prior art apparatus" if the prior art apparatus teaches all the <u>structural</u> limitations of the claim *Ex parte Masham*, 2 USPQ2d 1647 (Bd. Pat. App. & Inter. 1987). Also see MPEP 2114.

Further regarding heating the plate to at least about 200 °C: the heating system including the heaters 18 and temperature controller 19 is capable of heating and setting the temperature of the intake gas to 200 °C. This rejection is based on the fact the apparatus structure taught by Hayashida has the inherent capability of being used in the manner intended by the Applicant. When a rejection is based on the inherency, a rejection under 35 U.S.C. 102 or U.S.C. 103 is appropriate. (See *In re Fitzgerald* 205 USPQ 594 or MPEP 2112).

Further regarding claim 29: the plate 15 as shown in Fig. 3 having raised section at the peripheral portion thereof.

Claims 28 and 29 are rejected under 35 U.S.C. 102(b) as being anticipated by Hayashida (JP 63-136532-A).

Hayashida teaches a semiconductor thermal treatment apparatus (Fig. 1b) including wafer-supporting block comprising:

a base plate 1 (a plate configured to extend across a major surface of the wafer having a thickness greater than 10 mm);

a plurality of guide holes 8 (a plurality of distributed gas passage in the plate capable of creating a supporting gas cushion);

a plurality of heaters 5 arranged in the plate 1 and coupled to a temperature controller for heating and setting the temperature of gas intake to a desired value (a resistive heater capable of Application/Control Number: 10/603,515

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heating the plate, wherein a heat capacity of the wafer-supporting block is sufficiently high to allow heat being transferred to the wafer) (abstract).

Further regarding heating the plate to at least about 200 °C: the heating system including the heaters 5 and temperature controller is capable of heating and setting the temperature of the intake gas to 200 °C. This rejection is based on the fact the apparatus structure taught by Hayashida has the inherent capability of being used in the manner intended by the Applicant. When a rejection is based on the inherency, a rejection under 35 U.S.C. 102 or U.S.C. 103 is appropriate. (See *In re Fitzgerald* 205 USPQ 594 or MPEP 2112).

Further regarding claim 29: the plate 1 as shown in Fig. 1b having raised section at the peripheral portion thereof.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-29 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-41 of U.S. Patent No. 6,183,565 B1 and claims 1-44 of U.S. Patent No. 6,461,439 B1. Although the conflicting claims are not identical, they are

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not patentably distinct from each other because all the structural limitations of the claims of the present application and the recited patents are obvious variation of each other.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Parviz Hassanzadeh whose telephone number is (571)272-1435. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Mills can be reached on (571)272-1439. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0661.

12. Massonsadel Parviz Hassanzadeh Primary Examiner Art Unit 1763 Page 5

January 6, 2004